

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	113643	(lightweight adj rim or wheel adj rim or light adj weight)and structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:28
L3	380	L1 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:31
L4	13	L3 and(CAD or SEM or arachnoidiscus or FEM or finite adj element adj method)and (model\$1 or prototype or template)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:35
L5	1	L4 and(prepar\$3 or obtaining) and parameter and (bio adj mineralized adj unicellular adj organisms)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:39
L6	0	L5 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:39
L7	1	(bio adj mineralized adj unicellular adj organisms)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:40
L8	1	bio adj mineralized adj unicellular adj organisms	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:41
L9	113	(bio adj mineralized adj unicellular adj organisms or shell adj architectures)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:42

L10	1	(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:43
L11	1	(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:43
L12	3	(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:43
L13	2	L9 and preselection and (diatoms or radiolaria or arachnoidiscus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:47
L14	0	L13 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:47
L15	2	L9 and(diatoms or radiolaria or arachnoidiscus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:48
L16	4	preselect\$3 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:48
L17	1	L16 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:48
L18	1	L16 and @ad<"20031130"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:49

L19	0	L18 and(lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:51
L20	0	L18 and(lightweight adj rim or wheel adj rim or light adj weight or spokes)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 10:51
L21	102	((("20070112522") or ("5434962") or ("6155450") or ("5564381") or ("5355474") or ("4609912") or ("4772632") or ("5284774") or ("5434952") or ("5557503") or ("6087228") or ("6178805") or ("5616376") or ("4380569") or ("4493203") or ("4522390") or ("4604844") or ("4791965") or ("4825578") or ("4941767") or ("5187826") or ("5199530") or ("5214572") or ("5560137") or ("5634483") or ("5771992") or ("5857732") or ("5955013") or ("5966896") or ("5966894") or ("6116644") or ("6135017") or ("6194790") or ("5981094") or ("5999010") or ("4027004") or ("4294661") or ("4385957") or ("4526312") or ("4544901") or ("4600852") or ("4604706") or ("4763902") or ("4849668") or ("4902787") or ("4988919") or ("5206951") or ("5207371") or ("5226161") or ("5256990") or (").pn.")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/23 11:02
L22	100	L21 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:03
L23	0	L22 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:03
L24	0	L22 and(diatoms or radiolaria or arachnoidiscus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:03
L25	0	L22 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:04

L26	1	L21 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:05
L27	1	L21 and rim adj body and spoke adj structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:06
L28	847	403/169,170,171.CCLS.	USPAT	OR	ON	2009/07/23 11:07
L29	0	L28 and rim adj body and spoke adj structure	USPAT	OR	ON	2009/07/23 11:08
L30	0	L28 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	USPAT	OR	ON	2009/07/23 11:08
L31	0	L28 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)	USPAT	OR	ON	2009/07/23 11:09
L32	0	L28 and preselection and (diatoms or radiolaria or arachnoidiscus)	USPAT	OR	ON	2009/07/23 11:10
L33	3171	264/255,250,241.ccls.	USPAT	OR	ON	2009/07/23 11:11
L34	0	L33 and rim adj body and spoke adj structure	USPAT	OR	ON	2009/07/23 11:11
L35	0	L33 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	USPAT	OR	ON	2009/07/23 11:11
L36	0	L33 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)	USPAT	OR	ON	2009/07/23 11:12
L37	0	L33 and preselection and (diatoms or radiolaria or arachnoidiscus)	USPAT	OR	ON	2009/07/23 11:12
L38	2210	333/208,24R,202,208.ccls.	USPAT	OR	ON	2009/07/23 11:13
L39	0	L38 and rim adj body and spoke adj structure	USPAT	OR	ON	2009/07/23 11:13
L40	0	L38 and collect\$3 adj data and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and(vehicle or automotive)	USPAT	OR	ON	2009/07/23 11:13
L41	0	L38 and(bio adj mineralized adj unicellular adj organisms or shell adj architectures)	USPAT	OR	ON	2009/07/23 11:13

L42	0	L38 and preselection and (diatoms or radiolaria or arachnoidiscus)	USPAT	OR	ON	2009/07/23 11:14
L43	3	(bio adj mineralized adj unicellular adj organisms or shell adj architectures)and (lightweight adj rim or wheel adj rim or light adj weight or spokes)and structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:26
L44	0	L43 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 11:27
S1	56	lightweight adj rim	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 10:51
S2	0	S1 and diatoms and microstructure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 10:52
S3	2	S1 and diatoms	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 10:52
S4	1	S1 and automotive adj vehicle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:00
S5	51610	automotive adj vehicle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:01
S6	1	S5 and lightweight adj rim	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:02
S7	528	S5 and(lightweight adj rim or wheel adj rim)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:03
S8	0	S7 and(lightweight adj rim or wheel adj rim)and innner adj rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:05

S9	0	S7 and(rim or wheel adj rim) and inner adj rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:05
S10	0	(vehicle or automotive)and(rim or wheel adj rim)and inner adj rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:06
S11	0	(vehicle or automotive)and(rim or wheel adj rim)and inner adj rim	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:07
S12	1	S7 and(lightweight adj rim or wheel adj rim)and inner adj rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:07
S13	1	S7 and(lightweight adj rim or wheel adj rim or spoke)and inner adj rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:08
S14	1	(plurality or plural\$1)and(rib adj structuregt or wheel adj rim or spoke)and inner adj rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:11
S15	1	(plurality or plural\$1)and(rib adj structur or wheel adj rim or spoke)and inner adj rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:12
S16	131	annular adj spokes	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:13
S17	109	S16 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:21
S18	102	S17 and @ad<"20031130"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:21
S19	2	S18 and spoke adj structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:23

S20	2	S19 and @ad<"20031130"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:23
S21	2	S17 and spoke adj structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:35
S22	3	S7 and inner same rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:36
S23	3	S7 and inner and rim adj body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:36
S24	102	((("20070112522") or ("5434962") or ("6155450") or ("5564381") or ("5355474") or ("4609912") or ("4772632") or ("5284774") or ("5434952") or ("5557503") or ("6087228") or ("6178805") or ("5616376") or ("4380569") or ("4493203") or ("4522390") or ("4604844") or ("4791965") or ("4825578") or ("4941767") or ("5187826") or ("5199530") or ("5214572") or ("5560137") or ("5634483") or ("5771992") or ("5857732") or ("5955013") or ("5966896") or ("5966894") or ("6116644") or ("6135017") or ("6194790") or ("5981094") or ("5999010") or ("4027004") or ("4294661") or ("4385957") or ("4526312") or ("4544901") or ("4600852") or ("4604706") or ("4763902") or ("4849668") or ("4902787") or ("4988919") or ("5206951") or ("5207371") or ("5226161") or ("5256990") or (").pn."))..PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/19 11:38
S25	1	S5 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:38
S26	0	automobile adj wheel and inner adj rim and mounted adj axle and outer adj rimi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:42

S27	0	automobile adj wheel and inner adj rim and mounted adj axle and outer adj rim	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:42
S28	1	S24 and automotive adj vehicle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:43
S29	1	S28 and rib adj like and radial adj spokes	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:44
S30	1	structural and prototype adj data and(lightweight adj rim or wheel adj rim)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:47
S31	1	structural adj data and (lightweight adj rim or wheel adj rim)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:48
S32	59	collect\$3 adj data and (lightweight adj rim or wheel adj rim)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:49
S33	0	S32 and automobile adj wheel and(inner or outer)adj rim and mounted adj axle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:50
S34	0	S32 and (inner or outer)adj rim and mounted adj axle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:50
S35	0	S32 and (inner or outer)adj rim adj body and mounted adj axle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:51
S36	0	S32 and vechicle and inner adj rim	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:51
S37	1	S32 and collect\$3 adj data and diatoms and(lightweight adj rim or wheel adj rim)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:53



S38	6	S32 and collect\$3 adj data and (diatoms or microstructure)and (lightweight adj rim or wheel adj rim)and(vehicle or automotive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:54
S39	0	S38 and @ad<"20031130"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:54
S40	5	S38 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:54
S41	0	S32 and mounted adj axle	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 11:59
S42	1	S32 and rim adj body and spoke adj structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 12:01
S43	1	S38 and rim adj body and spoke adj structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/19 12:02
S44	1	((CHRISTIAN) near2 (HAMM-DUBISCHAR)).INV.	US-PGPUB; USPAT	OR	ON	2009/03/19 12:10
S45	1	(automotive and vehicle and inner adj rim adj body and outer adj rim and spoke adj structure and determining and structural adj data and prototype and lightweight and radial adj spokes and width and annular adj spokes).CLM.	US-PGPUB	OR	ON	2009/03/19 12:14

7/23/09 11:27:14 AM

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